



# WHAT IS DEFORESTATION?



**Why** is it important?

**How** does it affect me and  
my family?





Deforestation is the deliberate cutting down or burning of trees to use for building & firewood or to clear land for farming and raising cattle.



20% of the Earth's oxygen is produced by the Amazon rainforest.

More than **30%** is produced by African forests and woodland.  
Without oxygen our planet will die.

Trees are the **lungs of the earth.**

They produce oxygen for us to breathe, provide shelter for animals and attract clouds that bring us the essential rain we need to live and farm.

If we cut all the trees, we are damaging our health





African countries are cutting timber 200 times faster than it can regrow.

Europe, USA & Japan use 60% of **all** the timber cut in the world.

We **cannot** grow more trees fast enough to protect us and our world.

If we don't start to protect our trees and the environment, what will happen to our country?





# Effects of DEFORESTATION

Forests are complex ecosystems that affect almost every species on the planet. Deforestation starts a devastating chain of destruction and extinction.

## Loss of Species

**70%** of the world's plants and animals live in forests and being destroyed by deforestation. Extinction of species affects many people who rely upon animals and nature for hunting and medicine.



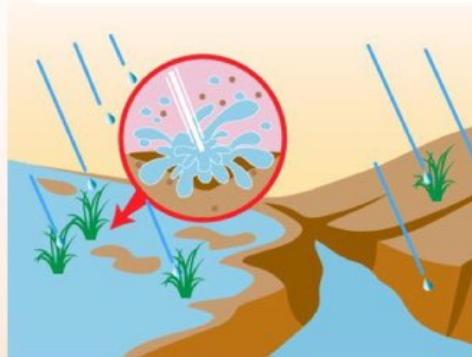
## Water Cycle

Trees absorb rainfall, Store the water and produce water vapour that is released into the atmosphere. In Africa almost **50%** of the water is held within plants. Deforestation produces droughts and climate change.



## Soil Erosion

Tree roots hold the soil together and prevent flooding. Over **35%** of our forests have been cut in the last 50 years. Millions of people have been affected by floods.



We all need land to grow crops and to live on.

We all need timber to build with.

And we all need fuel to cook with.

**BUT..**

If we don't protect our land, soon we will have nothing left.

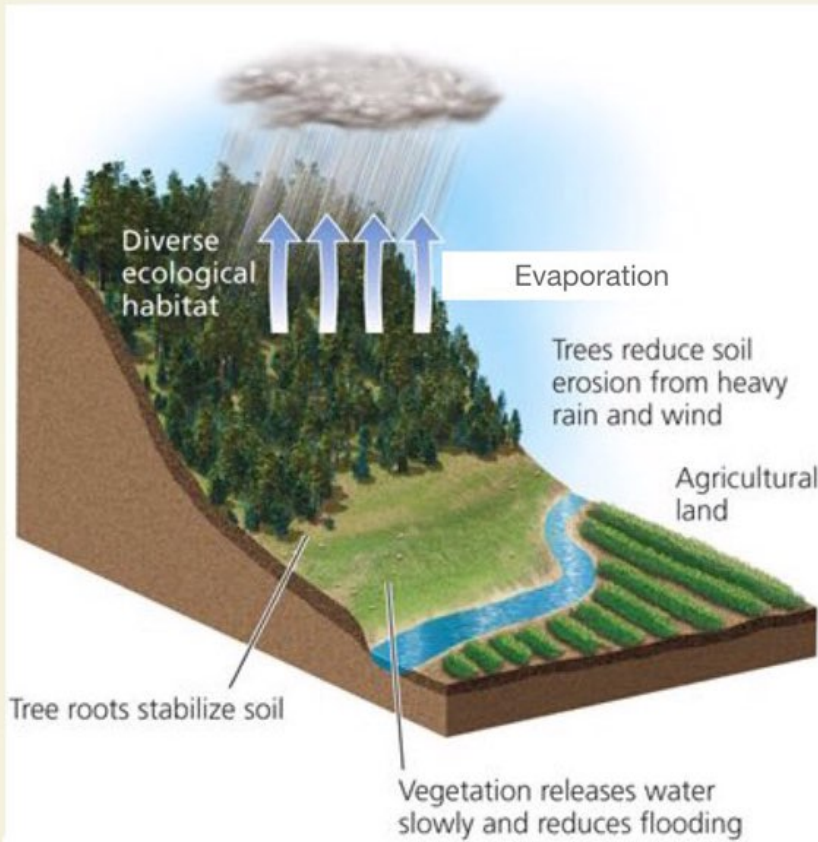


**"If the current rate of deforestation continues, it will take less than 100 years to destroy all the rainforests on the earth"**

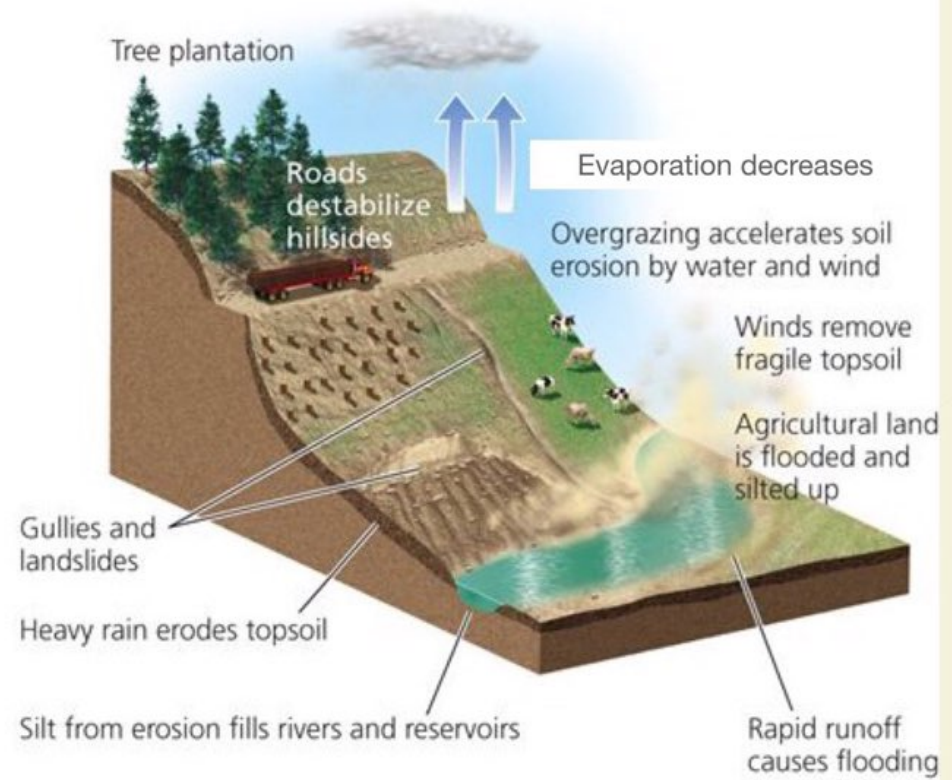
# What happens to our land when we cut down the trees?



## Before Deforestation:



## After Deforestation:



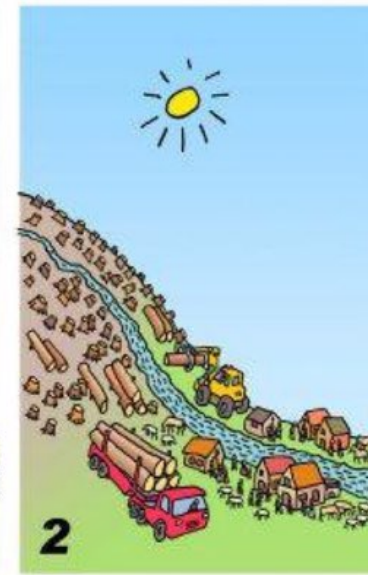
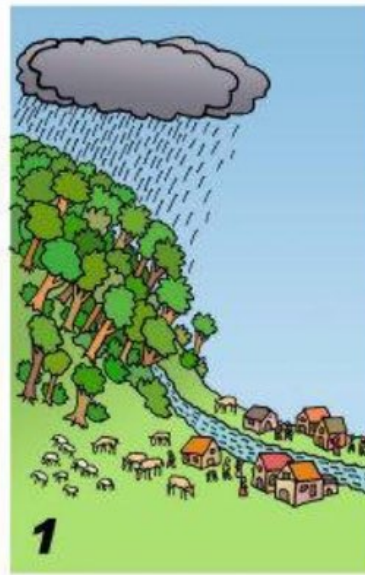


Without tree roots to support the land, the best soil washes away when it rains.

Crops will **fail** without good soil.

Gulleys are formed by the flood water and the gulleys produce dangerous landslides, and then even more flooding.

**Thousands** of people die every year from flooding or from failure of their crops.







a 3-stone fire is only 5-12% fuel efficient

In Africa **575 million people** (75% of the population) use trees for firewood & charcoal making.

Cooking on open fires is **very** inefficient:  
80%-90% of the heat is wasted.

**All over the world**, millions of women spend many hours walking great distances to collect firewood.

This is dangerous, wastes time and causes injury.



If we can find a **better way** of cooking we can reduce the terrible damage caused by this loss of trees.



Perhaps the biggest problem when cooking with firewood is the damage to your health.

More than **2 million** women & children in Africa die every year from diseases caused by breathing woodsmoke.

That's 5,500 **per day!**

That's 228 **per hour!**

Breathing woodsmoke from cooking fires causes cancer.

A cleaner and more efficient way of cooking **must** be found if we want to save the lives of our families & stop the damage we are doing to our district, our country and the continent of Africa.



We know that burning wood for cooking is wasting more than 80% of the heat and is killing people with the dangerous smoke it produces. So, **how** can we improve the efficiency of the fuel we burn?



The answer is surprisingly simple...

## Use Fuel Briquettes



Fuel Briquettes are being made in your own community.



They are:  
**cheaper,**  
**safer,**  
**healthier,**  
**more efficient**

than using firewood for cooking.



# What are Fuel Briquettes?

Fuel Briquettes are made from recycled litter, garden waste or farm waste.

All around the world people use whatever materials they can get most easily: such as maize cobs, banana leaves, coffee husks, sawdust, sugar cane waste, straw, etc.



The raw waste materials are turned into charcoal dust in the same simple way that wood is made into charcoal.

This can be done easily at home.

Even charcoal dust from the bottom of the bag or from the ground around the charcoal sellers & charcoal makers can be used.

Making cooking fuel from waste means we really are making

**Fuel From The Fields!**



The maize cobs or other materials are turned to charcoal, either using a charcoal barrel or by traditional charcoal methods.



Then it is crushed into dust.

The dust is mixed with something to glue it together (like thin cassava porridge), then it is squeezed & shaped in a mould.





Finally the Fuel Briquettes are very carefully removed from their moulds and left somewhere safe to dry for 3-4 days. The Briquettes have truly become Fuel From The Fields.



These Fuel Briquettes will burn more **efficiently** than firewood. They are also **cheaper** than charcoal and produce much **less smoke** than firewood.



Fuel Briquettes are cheaper, healthier, safer & faster than cooking with either charcoal or firewood.

But... they can be made **even better** if they are burnt in a Rocket Stove rather than on an open fire.



Rocket stoves work by making sure that all the heat goes to the pot and is not wasted around the fire.

*Only a small amount of fuel is needed in a Rocket Stove.*



Fuel Briquettes are 2x more efficient and cheaper than firewood.

But Rocket Stoves will make Fuel Briquettes up to **4x better**.

**Save the trees, save money, save your health.**



# Deforestation Summary.

Deforestation is killing the planet and harming our country.

We cannot stop using trees, but we can change the way we use them so that we are not wasting them.



Fuel Briquettes & Rocket Stoves will save time, save money, save your health and help to save the trees.

Saving the trees will protect the land, reduce flooding, improve the farmland and make sure our country is protected for our children.

For more information contact...



[www.amahaweuganda.org](http://www.amahaweuganda.org)

Email: [helene@amahaweuganda.co.uk](mailto:helene@amahaweuganda.co.uk)



